IT'S FINALLY HERE!!!

TAB Books owned the manuscript for over a year
but didn't publish

Budget Robotics & Computing has acquired the rights and brings you the best "How To" and "Learn by Doing" robotics and computer control book available.

BUILD A MICROCOMPUTER-CONTROLLED ROBOT

AND OTHER COMPUTER CONTROL PROJECTS

BY B. C. TAYLOR

Are you tired of books which are full of useless projects that were obviously never built by the author?

Did you ever suspect that the reason some computer project books didn't show you the completed project is because the author never built the project as described or never got it to work right?

Are you intimidated by computer control projects that require you to build a computer from scratch?

Do you want to learn about computer control and robotics by actually building and operating equipment that doesn't cost thousands of dollars?

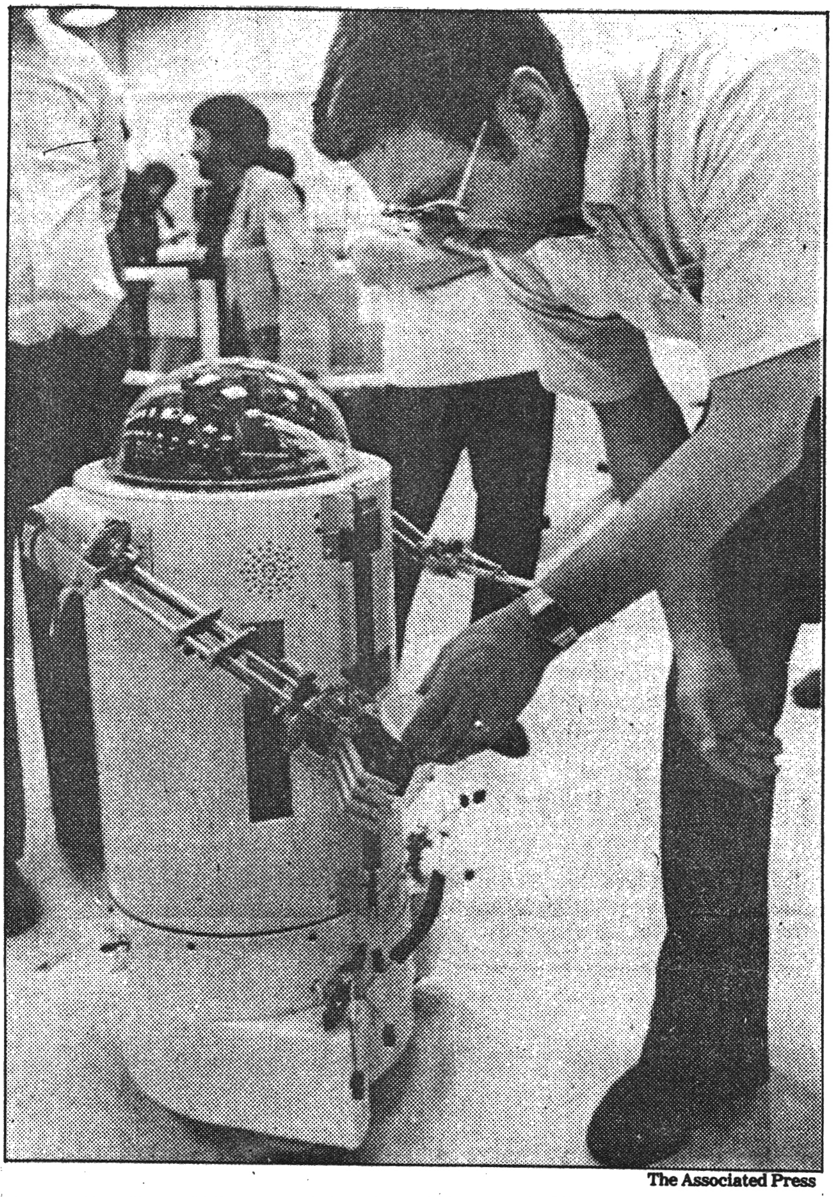
THEN THIS IS THE BOOK FOR YOU!!!

The centerpiece of the book is H.E.N.R.Y. the Golden Droid Award winner at the First International Personal Robot Congress and Exposition 1984. The book gives complete details so you can build this internally computer controlled robot for a few hundred dollars.

The book contains other sophisticated but inexpensive projects and a supplement with High School robotics course curriculum material.

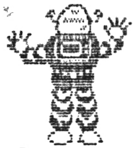
Over 200 pages (8 1/2" x 11"), with over 80 illustrations and over 60 tables of information in a builder's notebook binder.

The price is just $15.95 + $2.05 shipping ($18.00 total).
Send your check or money order to:
BUDGET ROBOTICS & COMPUTING, BOX 18616, TUCSON, AZ 85731



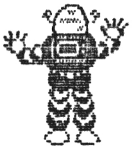
The Associated Press

Bruce Taylor of Tucson, Ariz., hands a cup to Henry, a robot he built at home. Both are attending the International Personal Robot Congress and exposition in Albuquerque, N.M.



BUDGET ROBOTICS & COMPUTING

Box 18616
Tucson,AZ 85731



################## Product Information and Price List ################

We purchased the rights to manufacture and sell the Computer Continuum Buffered Buss Development Board. This expansion Buffered Buss board is approximately 6 1/4 by 8 1/4 inches in size, double sided with plated through holes. It has seven expansion connection points. One duplicates the connector at the rear of the computer (ZX81/TS1000/TS1500) but with gold plated fingers; four points allow the addition of 22/44 .156" edge card connectors; and, two are for the addition of 23/46 .100" edgecard connectors. It is available both in bare board version with complete documentation, parts list, and a 90 degree connector for connection to the computer's rear connector and in two kitted versions. The board is compatible with the Sinclair and Timex/Sinclair ZX80, ZX81, TS1000 and TS1500 computers.

We also have available the input/output board originally sold by ZODEX as the RX-81. I can supply this circuit board in bare board version complete with documentation and parts list and in kit version. Each parallel I/O RX-81 provides both eight latched outputs (each capable of driving an LED, transistor switch and relay) and eight inputs (each capable of reading mechanical switches or TTL status) at machine code speed. The RX-81 (approximately 2 3/8 by 3 inches, double sided, plated through holes) can either be plugged directly into the computer, or if more than one peripherial is desired, two or more RX-81 boards can be plugged into the expansion Buffered Buss board. The RX-81 works with the TS2068 also.

The above boards are the same described in my robot book and home control articles (Jul-Aug 83 and Jan-Feb 84 SYNC magazine). A copy of an unpublished article describing a simple and inexpensive optical encoder input project is included with the RX-81 documentation. H.E.N.R.Y., the robot described in the SYNC article, won the Golden Droid award at the First International Personal Robot Congress in 1984, for the Most Entertaining.

I have written a book describing the above projects plus more which is now available for $15.95 + $2.05 shipping. Additional information is included, in the form of supplemental pages, for anyone interested in teaching High School beginning level robotics courses. The material (17 pages) includes course descriptions, course outlines, parts lists with sources and platform construction drawings for two, one semester courses (Robotics 1 and Robotics 2). This material, along with detailed information in the book should be sufficient for an electronics/computer qualified instructor to prepare for and teach the courses.

Bruce Taylor
Budget Robotics & Computing, Inc.

COMPUSERVE I.D. 72466,3310

BUFFERED BUSS EXPANSION BOARD is available in several versions from bare board to fully populated kit, as follows:

'EXP-1' Bare board version - double sided with plated through holes (board size approx. 6 3/8" by 8 1/4") with parts list, full instructions and documentation.	$40
'EXP-1A' Fully populated version board kit - circuit board, all buffer circuit components, connector to rear of computer, connectors for all six expansion points requiring connectors, 3 amp / 5 volt regulator and full instructions with documentation.	$80
'EXP-1B' Economy version board kit - circuit board, all buffer circuit components, connector to rear of computer, connectors for three expansion points, full instructions with documentation (order EXP-1R and EXP-1C later for a fully populated board).	$62
'EXP-1R' Potional 3 amp / 5 volt regulator kit - for use with EXP-1B or EXP-1.	$9
'EXP-1C' Optional three connector kit - for use with EXP-1B or EXP-1.	$11

RX-81 I/O Board is available in bare board or fully populated kit versions, as follows:

'RX-81' Bare board version - double sided with plated through holes (board size approx. 2 3/8" by 3") with parts list, full instructions and documentation.	$10 (two for $18)
'RX-81A' Fully populated version board kit - circuit board, all components, connector, full instructions with documentation (order this version if you want to plug the RX-81 directly into the computer's rear expansion slot).	$25
'RX-81B' Fully populated version board kit - as above, minus connector (order this version if you intend to plug the RX-81 into the BUFFERED BUSS EXPANSION BOARD).	$21
'RX-81C' Optional demo/test kit - consists of one LED array for output demo/test and one eight position DIP switch for input demo/test.	$4

BRC book "BUILD A MICROCOMPUTER - CONTROLLED ROBOT and Other Computer Control Projects" describes inexpensive computer control projects using Sinclair ZX81 and Timex/Sinclair 1000, 1500 and 2068 computers. Feature project is self contained personal robot using internal ZX81 or TS1000 control. Application of above circuits plus more is included.	$18

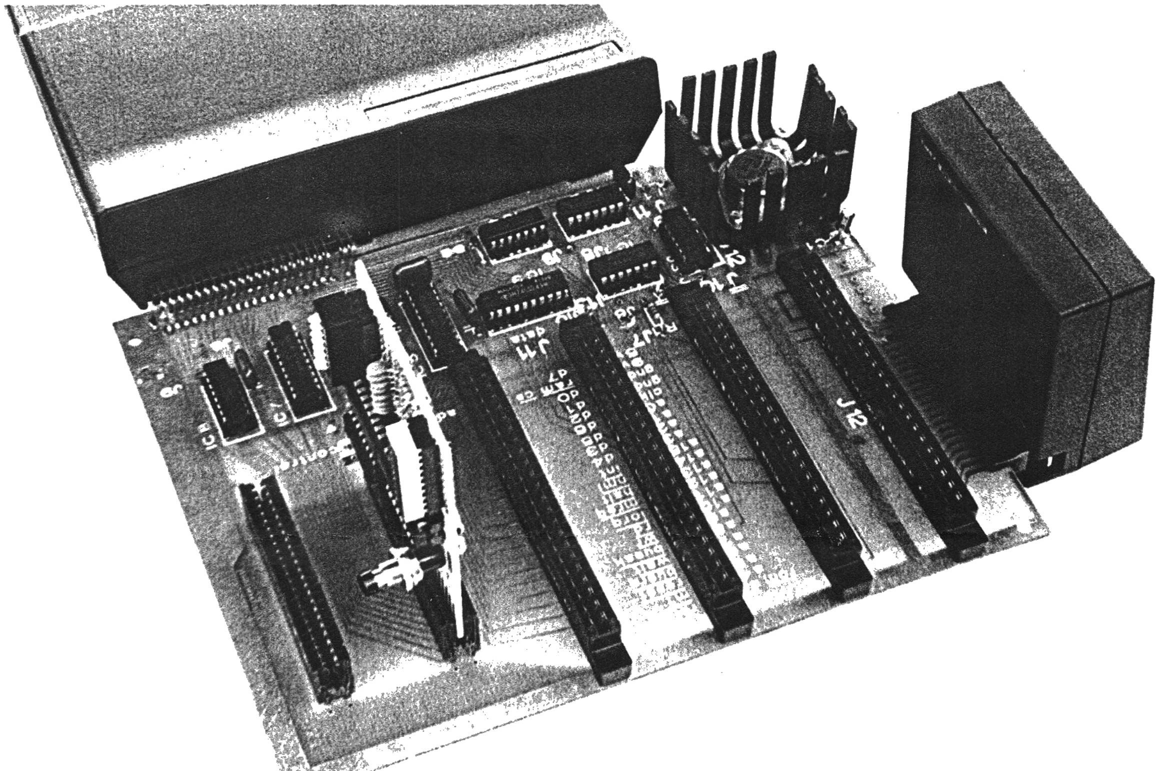
######################## ORDERING INFORMATION ########################

Order above products by alpha-numeric abbreviation (i.e. 'EXP-1B'). Postage and handling for U.S. and Canada is included in prices as listed. Other overseas locations add 10 percent for shipping. We accept check or money order (U.S. dollars) only as payment. We ship immediately when payment is by money order. Allow time for check to clear bank before shippment.

##

BUDGET ROBOTICS & COMPUTING, BOX 18616, TUCSON, AZ 85731

##



EXP-1 and RX-81. Photo above shows fully populated BUFFERED BUSS EXPANSION BOARD and RX-81 I/O BOARD plugged into TS1000 computer with 16K RAM pack. From right to left: 16K RAM pack, 5 volt 3 amp regulator (top right), buffer/decoder ICcs (across top), six expansion connector points (across bottom) with RX-81 I/O board plugged into expansion point, second from left.